IBM Worklight

Create, run and manage your mobile environment

Highlights

- Extend your business to mobile environments
- Develop HTML5, native and hybrid mobile applications
- Deliver scalable enterprise connectivity
- Manage your mobile infrastructure and applications
- Secure your investment and avoid lock-in with standards-based tools

Today's fragmented mobile landscape presents considerable application development challenges. The increasing number of operating systems as well as the mix of devices, form factors and standards has turned native application development into a cost-prohibitive strategy, resulting in a growing market of cross-platform solutions and mobile development tools. Many solutions have shortcomings—including proprietary interpreters, uncommon scripting languages or limiting development environments—leaving mobile developers to make tradeoffs between cost, time to market and user experience.

IBM® Worklight is designed to help organizations efficiently create, run and manage HTML5, hybrid and native applications for smartphones and tablets with industry-standard technologies and tools. The solution includes an open, integrated development environment (IDE) with maximized code reuse and per-device optimization, mobile-optimized middleware and powerful management and analytics. Many organizations rely on IBM Worklight to provide an optimal user experience across more devices while reducing time to market, development costs and ongoing maintenance efforts.

IBM Worklight—including IBM Worklight Studio, IBM Worklight Server, device runtime components and IBM Worklight Console—helps address the high security standards of global organizations around the world. The platform delivers security features designed to support application provisioning, user authentication, access authorization, encrypted server-client communication and offline availability, including on-device encryption and offline authentication.

IBM Worklight Studio

The IBM Worklight Studio is a comprehensive IDE for rich, cross-platform applications. With the help of the Studio, you can:

- Access a device application programming interface (API) using native code or a PhoneGap bridge
- Combine native and HTML5 code in the same application
- Utilize third party tools such as dojox.mobile, Sencha Touch and jQuery Mobile
- Maximize code sharing among different environments
- Support multiple devices of the same operating system family using one executable
- Connect to development, testing and debugging tools in device software development kits

IBM Worklight Server

The IBM Worklight Server is mobile-optimized middleware, and serves as a gateway between applications, back-end systems and cloud-based services. The Server is designed to help you:

- Connect back-end systems using configurable XML files and Java
- Integrate with existing authentication and security mechanisms
- Auto-convert hierarchical data to the mobile-friendly JSON format
- Push back-end notifications using a uniform architecture
- Update the web content of applications directly from the server (subject to the vendor's terms of service)
- Mash-up multiple data sources to optimize data delivery

Device runtime components

IBM Worklight also includes runtime client APIs designed to enhance existing server functions. Device runtime components are designed to provide:

- Connectivity and authentication APIs
- Local encryption, offline authentication and remote disabling
- Runtime skins, user interface abstractions and HTML5 compatibility
- Hybrid application framework, access device APIs and push-based registration
- Built-in reports and event-based custom reports
- Direct updates of application web resources and HTML5 caching

IBM Worklight Console

Finally, the IBM Worklight Console is an administrative GUI for the server, adapters, applications and push services. The Console can help you:

- Monitor applications and adapters from a central, web-based administration console
- Manage push services and event sources from one interface
- Control multiple application versions and set update rules
- Remotely disable applications based on version and device type
- Generate pre-configured user adoption and usage reports
- Configure data collection rules for application-specific events

IBM Worklight is part of the IBM Mobile Foundation family of products, an offering designed to bring together all the key mobile capabilities that organizations require into a single integrated package that will allow our customers to address the full array of challenges and opportunities that the mobile channel presents. IBM Mobile Foundation delivers a range of application development, connectivity and management capabilities that support a wide variety of mobile devices and mobile application types.

The IBM Mobile Foundation family of products includes the following offerings:

- IBM Worklight to help you build, run and manage cross-platform mobile applications
- IBM WebSphere® Cast Iron® Hypervisor Edition to help you connect mobile applications to a variety of cloud and back end systems
- IBM Endpoint Manager platform to help you control and manage users' mobile devices

Why IBM?

IBM provides a comprehensive set of mobile capabilities across technology and business. Partnerships with IBM can help organizations deliver mobile solutions that increase efficiencies and lead to a competitive advantage.

For more information

To learn more about IBM Worklight, please contact your IBM representative or IBM Business Partner, or visit the following website: **ibm.com**/software/mobile-solutions/worklight/

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